

CLIMATOLOGICAL DATA FOR APRIL, 1912.

DISTRICT No. 9, COLORADO VALLEY.

FREDERICK H. BRANDENBURG, District Editor.

GENERAL SUMMARY.

As regards low temperature and unsettled weather, April resembled the month immediately preceding, the improvement in conditions not keeping pace with the march of the season. Storms were frequent; in fact there were only 3 days in the month during which weather conditions were not in some degree dominated by low-pressure areas central in the district or close by. Sustained cold was general, and over the greater part of the southern half of the Colorado Basin the month was the coldest April of record. It is also true that the lowest temperature of the month in southern Utah and central Arizona was as low or within one degree as low as ever recorded in April. High winds were not uncommon in the southwest, and sand storms were frequent in western New Mexico and eastern Utah. There was high water in the Verde, Salt, and Gila Rivers lasting several days, following the unusually heavy snowfall of the 11th and 12th in northern Arizona. Inconvenience and interruption to traffic resulted from the difficulty in fording streams.

TEMPERATURE.

The mean of the 145 stations reporting was 46.8° , or 4.7° below the normal. The mean for April, 1911, was 52.5° . The highest monthly mean was 70.0° at Aztec, Ariz., and the lowest, 18.8° , at Corona, Colo. Days with temperatures above the normal were few and occurred between the 3d and 9th. From the 10th to the 23d, except for a day or two in Arizona, there was a decided deficiency of temperature. Some improvement occurred locally in the last week, but as a whole temperatures remained 5° or more below the normal. The highest temperatures occurred generally on the 24th and the last two days, while the lowest occurred principally on the 14th and 21st in Colorado, the 13th and 14th in New Mexico, and the 1st and 13th in Arizona. Zero temperature or lower occurred at one station each in the Wyoming and Utah areas, and at four stations in western Colorado.

Details of temperature are summarized in the following table:

Areas of States in district No. 9.	Temperature.					
	Mean.	Departure from normal.	Highest.	Station.	Lowest.	Station.
Western Wyoming.	33.3	-4.6	68	Green River.....	-2	Pinedale.
Western Colorado....	37.6	-4.3	79	Rangely.....	-7	Crested Butte.
Eastern Utah.....	43.8	-3.3	88	Green River.....	-3	Strawberry Tunnel (east).
Western New Mexico.	45.8	-4.5	87	Cambray.....	9	Berger's Ranch.
Arizona.....	55.5	-5.3	96	Maricopa.....	2	Williams.
Southeastern Nevada.	52.8	.....	84	Logan.....	20	Caliente.

PRECIPITATION.

The average for the 190 stations reporting was 0.94 inch, or 0.16 inch below the normal. The average for April, 1911, was 0.69 inch. The precipitation in the central and northern parts of the valley was local in character for the time of year, and as a whole there was a deficiency on the drainage of the Green, Grand, and San Juan Rivers. In the southern part of the district a moderate excess was general. There were only two days without precipitation in some part of the Colorado area; it was also persistent in Utah after the 9th, and from the 5th to the 18th in Arizona. The greatest monthly amount was 5.80 inches at Corona, Colo., while none occurred at 1 station in New Mexico and 3 stations in Arizona. Monthly snowfalls of 20 inches or more occurred at 1 station each in Wyoming, New Mexico, and Arizona, and 13 stations in Colorado. The maximum fall, 62 inches, occurred at Spruce Lodge, Grand County, Colo. The average number of days with 0.01 inch or more precipitation was 4 in western Wyoming; 9 in western Colorado; 5 in eastern Utah; 3 in western New Mexico; 3 in Arizona; and 5 in southeastern Nevada. For the district as a whole the average was 5 days.

The average precipitation and departures from the normal on the different watersheds are given in the following table:

Watershed.

Green.	Grand.	San Juan.	Little Colorado.	Gila.	Mimbres.	Colorado proper.							
Average.	Departure.	Average.	Departure.	Average.	Departure.	Average.							
0.85	-0.22	1.52	-0.22	1.15	-0.07	1.11	+0.54	0.66	+0.42	0.48	+0.38	0.85	+0.12

MISCELLANEOUS.

The amount of sunshine was generally somewhat below the normal. At Grand Junction it was 65 per cent of the possible; Durango, 70; Phoenix, 88; and Yuma, 92.

The relative humidity was less than the normal in the central and northern parts of the district, and above the normal in Arizona. The following are the values: Grand Junction, 52; Durango, 50; Phoenix, 47; and Yuma 42 per cent.

SNOWFALL IN THE MOUNTAINS OF COLORADO.

In the upper reaches of the streams rising on the slopes of the Continental Divide, or its spurs, the snowfall during April was less than the average. In this region practically the entire season's fall is still on the ground,

for, although temperature conditions have been favorable to settling, there has been practically no melting. For the time of year the depth of snow is much greater than usual on all watersheds, except the San Juan. At the end of April the average depth on the Yampa watershed, average altitude 7,700 feet, was 20 inches; for the Grand, average altitude 8,400 feet, 27 inches; for the Gunnison, average altitude, 8,900 feet, 27 inches; and for the San Juan, average altitude, 7,900 feet, 6 inches.

RIVERS.

The volume discharged by the Green was about the average for April, but that of the Grand and San Juan and the other tributaries of the Colorado was not only below the average but also the least in five years. A similar condition obtained in the lower reaches of the trunk stream notwithstanding a marked rise about the middle of the month caused by heavy local precipitation.

TABLE 1.—Climatological data for April, 1912. District No. 9, Colorado Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.				Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmetted.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.						
<i>Wyoming.</i>																							
Battle Mountain.	Carbon.	7,300	38.8 ^b	61 ^b	8 ^f	20 ^b	23	51 ^b	0.54	0.25	.	5	3 ^b	15 ^b	4 ^b	sw.	U. S. Forest Service.						
Big Piney.	Uinta.	35.0 ^e	67 ^e	22	25 ^f	51 ^e	0.90	0.30	0.30	0.30	0	5	4 ^e	9 ^e	10 ^e	w.	Ira Dodge.						
Daniel.	do.	6,740	28.1	-4.6	51	29	3	3	40	0.20	-0.59	0.20	1	9	21	0	nw.	J. M. Van Dervort.					
Eden.	Sweetwater.	6,577	3	35.1	63	9	10	22	46	0.44	0.14	3.5	7	11	13	6	w.	Eden Valley Land & Ir. Co.					
Green River.	do.	6,083	7	37.6	68 ^a	8	6	1	55 ^a	0.40	0.13	0.13	6	16	10	4	w.	Geo. H. Maxon.					
Pinedale.	Fremont.	7,167	6	28.6 ^c	53 ^c	29	-2 ^c	1	40 ^c	0.08	0.08	1.0	1	13 ^c	8 ^c	7 ^c	nw.	U. S. Forest Service.					
Rambler.	Carbon.	9,232	1	—	53 ^c	25	1 ^c	6	41 ^c	—	—	25.0	—	10 ^c	3 ^c	11 ^c	—	Do.					
Willow Creek Cabin.	Fremont.	7,500	3	30.1 ^c	—	—	—	—	—	—	—	—	—	—	—	—	nw.	Do.					
<i>Colorado.</i>																							
Ashcroft.	Pitkin.	9,483	10	27.8	-5.9	54	30	-1	21	41	0.80	-1.32	0.17	15.5	13	5	7	nw.	Dan McArthur.				
Breckenridge.	Summit.	9,536	23	28.2	-2.1	52	29	-2	7	47	0.73	-2.17	0.22	10.5	5	4	19	w.	Mrs. J. G. Thompson.				
Bufo.	Rio Blanco.	1	—	—	—	—	—	—	—	—	—	—	—	2.15	13.0	9	16	8	Mrs. H. Genier.				
Cascade.	San Juan.	8,900	5	—	—	—	—	—	—	—	—	—	—	0.58	—	—	—	—	San Juan W. & P. Co.				
Cedaredge.	Delta.	6,175	14	43.0	-4.8	65	8 ^f	21	22	35	0.85	+0.13	0.27	3.0	7	10	16	4	Harry A. Cobbett.				
Chromo.	Archuleta.	7,500	6	36.0	—	73	30	4	21	66	1.10	—	0.15	—	6	15	1	14	sw.	Lawrence Nolan.			
Cochetopa.	Saguache.	9,088	3	—	—	—	—	—	—	—	—	—	—	0.05	2.8	4	7	12	Bessie McDonough.				
Colbran.	Mesa.	6,000	19	41.0	-5.6	65	24 ^f	18	14 ^f	35	2.41	+0.94	0.78	12.0	12	10	8	sw.	A. A. Wood.				
Columbine.	Routt.	8,760	2	—	—	—	—	—	—	—	—	—	—	2.26	—	—	—	—	Mrs. M. A. Caron.				
Columbine Ranch.	Delta.	9,925	2	—	—	—	—	—	—	—	—	—	—	2.45	—	—	—	—	George W. Wade.				
Corona.	Grand.	11,600	5	18.8	—	40	7	3	13	30	5.80	—	0.84	45.0	12	—	—	—	U. S. Weather Bureau.				
Craig.	Moffat.	4,729	12	41.4	—	68 ^a	29	20 ^a	23	38 ^a	0.91	—	0.50	—	3	14 ^a	7 ^a	1 ^a	—	Joseph F. Haubrich.			
Crawford (near).	Montrose.	6,600	2	38.8	—	62	30	20	14 ^f	30	0.99	—	0.20	6.0	10	17	5	8	C. W. Roe.				
Created Butte.	Gunison.	8,867	2	26.4	—	52	24	-7	21	43	1.70	—	0.70	17.5	7	10	10	10	Charles L. Ross.				
De Beque.	Mesa.	4,935	2	—	—	—	—	—	—	—	—	—	—	1.19	—	—	—	—	H. M. Quigley.				
Delta.	Delta.	4,965	22	44.8	-6.1	73	30	21	14 ^f	47	0.78	+0.26	0.35	T.	6	18	11	1	E. M. Getts.				
Dillon.	Summit.	8,800	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Harry T. Hamilton.				
Durango.	La Plata.	6,534	17	41.4	-5.0	68	30	21	1	35	1.58	+0.44	0.39	4.9	10	6	17	7	U. S. Weather Bureau.				
Eureka.	San Juan.	10,000	5	—	—	—	—	—	—	—	—	—	—	—	—	11	0	19	s.	San Juan W. & P. Co.			
Fraser.	Grand.	8,560	3	26.0	—	53	24	0	7 ^f	49	1.97	—	0.48	20.5	14	5	3	22	w.	L. D. C. Gaskill.			
Fruita.	Mesa.	4,510	13	46.5	-4.7	72	30	21	14 ^f	44	0.83	+0.11	0.32	T.	6	11	15	4	nw.	J. B. Willsea.			
Glade Park.	do.	7,000	1	—	—	—	—	—	—	—	—	—	—	1.19	—	9	16	5	sw.	A. F. Terrill.			
Gladstone.	San Juan.	10,400	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	San Juan W. & P. Co.				
Glenwood Springs (n ^r).	Garfield.	5,822	14	41.6	-5.5	66	24 ^f	19	21	40	0.84	-0.35	0.20	0	5	19	5	6	w.	E. A. O'Neil.			
Grand Junction.	Mesa.	4,608	21	48.1	-5.1	73	24	27	14	35	0.36	-0.40	0.19	0.4	7	8	14	8	se.	U. S. Weather Bureau.			
Grand Lake.	Grand.	8,153	4	—	—	—	—	—	—	—	—	—	—	1.51	—	—	—	—	Mrs. Belle Kaufman.				
Grand Valley.	Garfield.	5,089	20	45.6	-3.5	73	9	23	14 ^f	46	1.11	-0.04	0.44	T.	11	—	—	—	David Evans.				
Gunnison.	Gunnison.	7,670	19	35.2 ^d	-4.4	61 ^d	29 ^d	104	21	43 ^d	0.23	-0.55	0.07	T.	9	12 ^d	14 ^d	4 ^d	sw.	Clarence Adams.			
Hesperus (near).	La Plata.	7,610	2	—	—	—	—	—	—	—	—	—	—	0.90	—	15.2	7	8	15	—	G. F. Snyder.		
Horseshy.	Montrose.	8,700	2	—	—	—	—	—	—	—	—	—	—	3.97	—	1.08	54.0	10	13	6	sw.	Lawrence J. Finch.	
Iron Mountain.	Routt.	10,000	2	—	—	—	—	—	—	—	—	—	—	2.08	—	0.73	19.2	5	8	17	se.	Mrs. Amanda E. Foley.	
Lodore.	Moffat.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Mrs. Geo. C. Bassett.				
Lake City.	Hinsdale.	8,686	7	33.4	—	60	30	10	14	41	0.84	—	0.28	10.3	8	9	7	14	s.	J. F. Maurer.			
Lay.	Moffat.	6,190	18	39.2	-2.8	67	7	18	22	41	1.10	-0.03	0.63	6.0	6	7	8	15	sw.	A. G. Wallihan.			
Mancos.	Montezuma.	6,960	13	40.2	-4.3	66	29	15	20	38	1.73	-0.13	0.58	13.8	11	10	17	3	sw.	B. M. Krumpanitzky.			
Marble.	Gunnison.	7,951	3	34.0	—	57	9	5	21	44	2.97	—	0.63	31.7	10	18	5	7	ne.	F. E. Morse.			
Marshall Pass.	Saguache.	10,846	9	—	—	—	—	—	—	—	—	—	—	1.33	—	0.35	16.0	6	13	0	17	Wm. L. Williams.	
Meeker (near).	Rio Blanco.	6,182	20	40.1	-3.7	64	8 ^f	18	14	41	1.15	-0.36	0.58	6.0	6	10	14	4	sw.	T. Baker.			
Montrose.	Montrose.	5,811	23	45.8	-1.6	71	30	21	22	39	0.53	-0.43	0.14	2.1	10	16	10	4	sw.	U. S. Reclamation Service.			
Nast.	Pitkin.	7,953	2	29.9	—	64	24	1	21	49	0.69	—	0.16	12.6	7	15	7	8	w.	Arthur Hanthorn.			
Pagoda.	Routt.	6,500	21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Mrs. J. W. Scott.				
Pagoza Springs.	Archuleta.	7,108	5	38.4	—	66	30	14	14	43	1.87	—	0.32	14.6	11	11	12	7	sw.	E. T. Walker.			
Palisades.	Mesa.	4,729	1	49.2	—	75	30	29	14	36	0.75	—	0.75	3.0	1	19	11	9	sw.	Elmer Hatt.			
Peonia.	Delta.	5,694	17	45.0	-4.4	71	30	22	21	35	1.40	+0.46	0.35	3.0	7	8	13	9	sw.	J. M. Underwood.			
Parshall.	Grand.	—	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	F. A. Field.				
Pyramid.	Gunnison.	9,500	3	—	—	—	—	—	—	—	—	—	—	0.91	—	0.28	5.5	6	14	7	9	Mrs. Maggie Cammann.	
Rangely.	Rio Blanco.	1	32.4	—	60	17 ^f	8	25	40	1.40	—	0.40	10.0	4	17	9	4	1	w.	E. E. Egry.			
Redcliff.	do.	5,050	13	43.5	-3.4	79	24	16	14 ^f	49	0.60	+0.05	0.40	6.0	2	15	2	13	sw.	J. H. McGuire.			
Rico.	Dolores.	8,824	10	—	—	—	—	—	—	—	—	—	—	2.02	+0.13	0.38	23.5	10	11	10	9	Dorothea Greiner.	
Rifle.	Garfield.	5,437	—	44.4	—	70	24 ^f	21	22	41	0.63	—	0.21	12.5	9	14	7	9	s.	Clinton B. Smith.			
River Portal.	Garfield.	6,570	6	42.2	—	65	24 ^f	20	21	39	1.01	—	0.24	0	11	9	12	9	nw.	Herman Eiche.			
Sapinero (near).	Gunnison.	8,125	9	32.7	—	55	24	8	21	36	2.12	—	0.63	19.8	17	14	7	9	w.	U. S. Reclamation Service.			
Shoshone.	Garfield.	6,110	2	44.2	—	68	9	24	21	36	1.93	—	0.45	13.0	14	11	6	13	sw.	W. F. Irving.			
Silverton (near).	Garfield.	9,400	5	20.8	—	50	23	-4															

TABLE 1.—Climatological data for April, 1912. District No. 9—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.			Prevailing wind direction.	Observers.
				Departure from the normal.			Date.	Lowest.	Date.	Greatest daily range.	Total.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
				Mean.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.				
Utah—Continued.																				
Moab.....	Grand.....	4,000	22*	52.0	-3.4	77	30	26	23	43	0.65	+ 0.14	0.26	T.	8	16	5	9	Henry Crouse.	
Monticello.....	San Juan.....	7,545	3																Geo. F. Barton.	
New Harmony.....	Washington.....																		Geo. F. Price.	
Orderville.....	Kane.....	6,660																	F. A. Porter.	
Pine Valley.....	Washington.....	6,000																	Mason Gardner.	
Price.....	Carbon.....	5,557	1	44.8		68	84	21	23	39	1.19		0.67		6	17	2	11	R. H. Thompson.	
Ranch.....	Kane.....	6,700	9	37.0		62	28†	5	13	40	3.10		0.85		5	21	2	7	J. W. Seaman.	
San Rafael.....	Emery.....																		W. C. Foy.	
St. George.....	Washington.....	2,880	25	54.0	-3.4	82	7	28	20	46	0.48	+ 0.12	0.16		4	8	15	7	A. B. Ballantyne.	
Scone.....	Carbon.....	7,025	2	31.8		50	8	4	14†	39	0.77		0.45	9.8	10	17	3	10	B. Newren.	
Springdale.....	Washington.....	3,500	4																Hattie Wood.	
Strawberry Tunnel (E.).....	Utah.....		27.3		49	9	-3	14†	42	1.38		0.58	14.0	6	12	11	7	U. S. Rec. Service.		
Sunnyside.....	Carbon.....	5,280	7																A. Rader.	
Teasdale.....	Wayne.....	7,000	2	36.9		59	24	19	14	33	0.29		0.10		4	10	15	5	Henry Cullum.	
Thompson.....	Grand.....	5,150	1	46.4		70	30	24	13	33	1.14		0.41	3.0	6	15	10	5	A. M. Starnont.	
Tropic.....	Garfield.....	7,000	15	40.8d	-4.2	66	30	18	20	35	1.20	+ 0.32	0.70		3	5d	9d	12d	E. P. Bolton.	
Trout Creek Ranger.....	Uinta.....	9,200																	Forest Supervisor.	
Vernal.....	do.....	5,050	15	43.4	-5.2	72	8	21	18	47	0.69	-0.02	0.25	0.5	7	19	9	2	S. P. Trim.	
White Rocks.....	do.....																	C. F. Keil.		
Woodside.....	Emery.....	4,645	1	46.0		71	30	20	23	44	0.39		0.15		3	13	11	6	D. P. Adams.	
New Mexico.																				
Alma.....	Socorro.....	5,500	15	48.6	-5.3	82	29†	21	14	51	0.48	-0.07	0.30	T.	3	5	23	2	s.	
Aragon.....	do.....	5,856	5	42.7		75	30	14	13	44	0.90		0.00	2.0	4	15	11	4	Max A. Balke.	
Artec.....	San Juan.....	5,590	12															John R. Milligan.		
Bergers Ranch.....	McKinley.....	8,000		33.2		65	29†	9	14	38	1.82		0.71	12.0	7	10	12	8	Dr. T. J. West.	
Black Rock.....	do.....	6,500	3	38.4		73	29	15	6	42	0.21		0.12		3	11	11	8	Herman Berger.	
Bloomfield.....	San Juan.....	5,500	17	45.9	-4.0	77	24	20	2	45	0.57	-0.22	0.20	3.0	6	5	25	0	D. Blackwater.	
Cambray.....	Luna.....	4,215	13			87	28				0.96	+ 0.05	0.53	0	3	11	15	4	Fred Le Clerc.	
Cliff.....	Grant.....	4,470	12															Agt. So. Pac. R. R.		
Columbus.....	Luna.....	4,054	3			85	30				0.86		0.47	0	3	22	2	6	W. C. Belden.	
Deming.....	do.....	4,333	35	56.1		82	25	26	1	46	0.68	+ 0.49	0.68	0	1	28	1	1	Agt. E. P. & S. W. R. R.	
Dulce.....	Rio Arriba.....	6,756	15	39.2	-3.8	67	30	17	22†	44	0.38	-0.46	0.20	2.0	2				Agt. So. Pac. R. R.	
Fort Bayard.....	Grant.....	6,152	37	48.2	-5.0	75	30	24	1	37	0.15	-0.21	0.11	T.	2	25	3	2	F. E. James.	
Fruitland.....	San Juan.....	4,800	18	49.4	-2.0	77	30	23	14†	43	0.52	+ 0.08	0.36	0.4	4	19	11	0	U. S. General Hospital.	
Gage.....	Luna.....	4,486	12	49.4		82	30	28	3†	44	0.90	+ 0.57	0.90	0	1	20	8	2	C. J. Collyer.	
Gila Planting Station.....	Grant.....	6,475	1	46.3		74	29†	22	1	41	0.22		0.12	T.	3	20	8	2	U. S. Forest Service.	
Hachita.....	do.....	4,504	3			84	23†				0.69		0.62	0	2	25	1	4	Agt. E. P. & S. W. R. R.	
Haynes.....	Rio Arriba.....	6,600	1	43.2		75	30	19	19	45	0.86		0.25	1.9	6	20	5	5	F. E. James.	
Hermanes.....	Luna.....	4,451	3															Dr. John R. Haynes.		
Lordsburg.....	Grant.....	4,245	29	54.2	-6.6	86	29	23	13	53	0.07	-0.10	0.07	0	1	18	4	8	Agt. E. P. & S. W. R. R.	
Luna.....	Socorro.....	7,300	7	40.6		72	30	10	13	50	0.25		0.20	T.	2	27	23	0	C. B. Martin.	
Mimbres.....	Grant.....	5,007	7					20	13	51	0.20		0.14	0	2	17	12	1	O. L. Scott.	
Pinos Altos (near).....	do.....	7,253	1					16	1	60	0.60		0.40	4.0	4	15	13	2	Agt. E. P. & S. W. R. R.	
Pratt.....	do.....	4,415	3								0.04		0.04	0	1	23	6	1	Robt. H. Wood.	
Redrock.....	do.....	4,450	7															Agt. E. P. & S. W. R. R.		
Rodeo.....	do.....	4,118	3					28	14	0	0	0	0	0	0	18	10	2	E. M. Brumback.	
Silver City.....	do.....	5,800	1	46.7		78	23	25	1†	46	0.27		0.10	1.0	3	19	7	4	w.	
Arizona.																				
Allaires Ranch.....	Cochise.....	4,184	16								0.14	-0.10	0.07	0	3	20	6	4	w.	
Alpine.....	Apache.....	8,500	1	36.9		63d	30	13*	22	44*	1.48		1.02	3.0	4	15	7	8	U. S. Forest Service.	
Artec.....	Yuma.....	492	13	70.0	-2.1	92	29	41	12	28	0.65	+ 0.43	0.38	0	2	24	0	6	Agent, Southern Pacific Co. Do.	
Benson.....	Cochise.....	3,523	31	55.2	-9.2	86	22	28	13	53	0.32	+ 0.18	0.32	0	1	22	2	6	Rev. J. G. Pritchard.	
Bisbee.....	do.....	5,500	21	52.0	-7.1	77	29†	28	13	52	0.59	+ 0.13	0.48	0	2	22	4	4	Agent, Southern Pacific Co.	
Bowie.....	do.....	3,756	31	57.6	-3.7	88	30	30	12	51	0.00	-0.19	0.00	0	0	18	11	1	H. E. Kell.	
Buckeye.....	Maricopa.....	980	20	62.2	-3.7	90	29†	35	1†	46	0.68	+ 0.43	0.60	0	2	27	3	0	Agent, Southern Pacific Co.	
Canille.....	Santa Cruz.....	5,225	3								0.40		0.21	T.	2	13	15	2	R. A. Rodgers.	
Casa Grande.....	Pinal.....	1,306	30	64.8	-5.1	93	30	38	3	50	1.25	+ 1.10	1.25	0	1	27	0	3	Agent, Southern Pacific Co.	
Casa Grande Ruins.....	do.....	1,422	4	62.0		90	29†	36	1	45	1.12		0.95	0	2	19	7	4	F. Pinkley.	
Cavecreek.....	Maricopa.....	1,520	5	58.6		86	30	33	21	45	0.64		0.60	0	3	24	1	1	E. A. Howard.	
Chin Lee.....	Apache.....	6,090	4	46.0		76	30	25	2†	40	0.65		0.47	0.5	5	1	11	18	F. L. Ostermann, O. F. M.	
Chiarsons Mill.....	Graham.....	8,000	6															H. R. Charlson.		
Clifton.....	Greenlee.....	3,584	21	61.6		89	30	34	13	41	0.24	-0.20	0.14	0	3	22	4	4	P. Reltsinger.	
Cline.....	Gila.....	2,300	12															W. M. Clanton.		
Cochise.....	Cochise.....	4,219	13	53.0	-8.5	87	9	29	3	51	0.06		0	4	17	6	7	M. J. Nolan.		
Columbia.....	Yavapai.....	1,900	10	58.6	-6.4	87	29	32	21†	38	1.21	+ 0.58	0.59	0	1	7	20	3	Agent, E. P. & S. W. Co.	
Courtland.....	Cochise.....	4,543	3								0.06		0.06	0	1	21	6	3	N. Erickson.	
Dos Cabezos.....	do.....	5,250	4	49.7		83	30	20	13	47	0.47		0.47	2.0	1	21	6	3	Dr. F. T. Wright.	
Douglas.....	do.....	3,930	9	57.0		91	30	29	1†	55	0.09		0.05	0	3	24	4	2	G. F. Cook.	
Dudleyville.....	Pinal.....	2,204	21	56.0	-6.9	87	29	32	1	39	0.65	+ 0.15	0.28	0	5	13	12	5	Agent, E. P. & S. W. Co.	
Fairbank.....	Cochise.....	3,862	3								0.09		0.09	0	1	24	5	1	U. S. Weather Bureau.	

TABLE 1.—Climatological data for April, 1912. District No. 9—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Highest	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of clear days, 0.01 inch or more.	Number of partly cloudy days.	Number of cloudy days.				
Arizona—Continued.																				
Maricopa.	Pinal.	1,186	35	62.4	- 8.5	96	29	30	1	46	0.51	+ 0.33	0.33	0	2	20	8	2	w.	
McNeal.	Cochise.	4,490	2	60.2	- 6.4	87	30	37	1	42	0.18	0.16	0	2	18	10	2	sw.		
Mesa.	Maricopa.	1,244	17	60.2	- 6.4	87	30	37	1	42	0.60	+ 0.22	0.40	0	2	14	13	3	sw.	
Mohawk Summit.	Yuma.	538	10	53.8	- 2.3	92	30	38	1	44	0.00	- 0.07	0.00	0	0	25	1	4	e.	
Naco.	Cochise.	4,579	3	53.8	- 2.3	92	30	38	1	44	0.09	0.09	0	1	20	7	3	sw.		
Natural Bridge.	Gila.	4,990	23	53.8	- 2.3	92	30	38	1	44	1.95	+ 1.00	1.10	10.0	4	12	15	3	sw.	
Oracle.	Pinal.	4,500	19	53.8	- 2.3	92	30	38	1	44	0.08	0.05	0	2	18	9	3	w.		
Osborn.	Cochise.	4,676	3	53.8	- 2.3	92	30	38	1	44	0.62	1.0	0	2	14	10	6	sw.		
Paradise.	do.	5,436	6	48.8	- 2.3	81	29†	16	13	49	0.87	0.50	0	1	25	3	2	do.		
Parker.	Yuma.	345	18	67.6	- 2.3	92	30	38	1	44	0.50	+ 0.40	0.50	0	1	25	3	2	do.	
Payson.	Gila.	5,550	4	53.8	- 2.3	92	30	38	1	44	0.99	0.99	0	1	25	3	2	do.		
Phoenix.	Maricopa.	1,108	17	63.1	- 3.5	88	29	38	1	39	0.52	+ 0.09	0.40	0	3	18	7	5	e.	
Phoenix (1).	do.	1,092	24	61.5	- 5.1	91	30	35	1†	47	0.56	+ 0.18	0.42	0	2	21	6	3	w.	
Phoenix (2).	do.	1,189	3	63.0	-	89	24†	37	13	47	0.46	-	0.34	0	2	20	4	6	sw.	
Pinal Ranch.	Pinal.	4,520	18	53.8	-	92	30	38	1	44	1.97	+ 1.08	1.09	9.0	6	26	1	3	sw.	
Pinto.	Apache.	5,660	8	53.8	-	92	30	38	1	44	0.69	-	0.26	6.5	6	14	12	4	sw.	
Prescott.	Yavapai.	5,320	45	44.8	- 5.7	71	30	21	14†	42	2.26	+ 1.48	0.90	-	8	do.	do.	do.	do.	
Quartzsite.	Yuma.	800	4	65.1	-	93	24	36	1	44	0.14	-	0.10	0	3	17	9	4	w.	
Redrock.	Pinal.	1,864	4	53.8	-	92	30	38	1	44	0.32	-	0.24	0	2	26	1	3	w.	
Roosevelt.	Gila.	2,175	7	61.6	-	85	30	35	2	41	2.78	-	2.00	0	4	12	15	3	w.	
Sacaton.	Pinal.	1,280	4	62.4	-	92	29	36	1	44	0.85	-	0.77	0	2	do.	do.	do.	do.	
St. Johns.	Apache.	5,650	6	53.8	-	92	29	36	1	44	0.85	-	0.77	0	2	do.	do.	do.	do.	
St. Michaels.	do.	6,950	23	43.0	- 3.2	71	30	19	8†	38	0.55	- 0.14	0.30	2.5	3	10	14	6	sw.	
Salome.	Yuma.	1,875	5	53.8	-	92	30	38	1	44	0.55	-	0.40	0	1	do.	do.	do.	do.	
San Carlos.	Gila.	2,456	30	53.8	-	92	30	38	1	44	0.55	-	0.40	0	1	do.	do.	do.	do.	
San Simon.	Cochise.	3,009	28	53.8	-	92	30	38	1	44	0.55	-	0.40	0	1	do.	do.	do.	do.	
Seligman.	Yavapai.	5,219	6	53.8	-	92	30	38	1	44	0.55	-	0.40	0	1	do.	do.	do.	do.	
Sentinel.	Maricopa.	685	13	66.2	- 4.4	91	29	42	13	37	0.93	+ 0.76	0.70	0	2	24	3	3	s.	
Silverbell.	Pima.	2,650	7	62.7	-	86	29†	36	12†	35	0.60	-	0.30	0	2	24	0	6	s.	
Snowflake.	Navajo.	5,044	5	46.0	-	74	29	22	2	45	1.25	-	0.39	T.	5	1	8	21	sw.	
Springerville.	Apache.	6,862	1	40.8	-	70	30	17	14	40	0.41	-	0.35	T.	3	16	9	5	s.	
Supai.	Coconino.	3,200	4	56.6	-	82	23†	33	27	38	0.87	-	0.42	0	4	do.	do.	do.	do.	
Tempe.	Maricopa.	1,165	8	62.2	-	89	24†	37	1†	39	0.60	-	0.48	0	2	19	9	2	sw.	
Thatcher.	Graham.	2,800	9	57.7	-	93	29	27	13	53	0.13	-	0.11	0	2	24	5	1	w.	
Tombstone.	Cochise.	4,550	13	57.2	- 4.8	89	29	28	12	37	0.21	- 0.06	0.12	0	2	24	5	1	w.	
Truxton.	Mohave.	3,997	3	53.8	-	92	30	38	1	44	0.05	-	0.29	0.05	0.5	1	27	2	1	do.
Tuba.	Coconino.	4,500	11	48.6	- 5.5	76	30	26	20	42	0.86	+ 0.38	0.27	0.5	6	17	13	0	sw.	
Tucson.	Pima.	2,390	31	58.7	- 6.8	90	29	33	13	43	0.28	- 0.05	0.26	0	2	8	17	5	nw.	
Tucson (1).	do.	2,380	4	57.2	-	90	29†	29	13	52	0.24	-	0.24	0	1	21	7	2	w.	
Tucson (2).	do.	2,526	2	58.4	-	89	29	34	13	47	0.28	-	0.25	0	3	21	7	2	w.	
Vail.	do.	3,421	13	64.8	- 3.4	88	28	42	1	36	0.05	-	0.29	0.05	0.5	1	27	2	1	do.
Walnut Grove.	Yavapai.	3,649	20	53.8	-	92	30	38	1	44	0.05	-	0.29	0.05	0.5	1	27	2	1	do.
Wickenburg.	Maricopa.	2,072	14	56.8	- 4.6	86	30	31	6†	48	1.70	+ 1.34	1.00	0	2	20	5	5	w.	
Wilcox.	Cochise.	4,161	30	51.4	- 8.6	80	24	20	21	50	0.11	- 0.04	0.11	0	1	7	0	23	s.	
Williams.	Coconino.	6,750	12	39.4	- 8.6	69	30	2	1	48	1.90	+ 1.00	0.80	16.0	8	13	15	2	do.	
Winslow.	Navajo.	4,853	4	51.1	-	85	30	23	1	49	0.70	-	0.30	0	4	25	0	5	w.	
Yuma.	Yuma.	141	31	65.2	- 4.9	91	29	39	13	41	0.10	-	0.00	0.10	0	1	25	5	0	w.
Yuma (1).	do.	150	5	61.6	-	87	29	33	13	47	0.06	-	0.06	0	1	17	10	3	w.	
<i>a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record.</i>																				
<i>** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.</i>																				
<i>† Also on other dates.</i>																				
<i>T. Precipitation is less than 0.01 inch rain or melted snow.</i>																				

Caliente..... Lincoln..... 4,407 2 45.6 70 30 20 24 44 1.00 0.30 3.0 5 19 1 10 1 se. s. Salt Lake Route.

Logan..... Clark..... 1,700 5 60.0 84 7 35 1† 40 0.63 0.37 0 5 23 6 10 1 se. s. O. W. Jarvis.

TABLE 2.—*Daily precipitation for April, 1912. District No. 9, Colorado Valley.*

Stations.	Watershed.	Day of month.																													Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
<i>Wyoming.</i>																																	
Battle Mountain	Snake.																																0.54
Big Piney	Green.	.01																														0.90	
Daniel	do.								T.	T.	T.																					0.20	
Eden	do.								T.			.20																				0.44	
Green River	do.									.03	.02	.13																			0.40		
Pinedale	do.																															0.08	
Rambler	Snake.																																
Willow Creek Cabin	Green.																																
<i>Colorado.</i>																																	
Ascroft	Grand.	.15																															0.80
Breckenridge	do.																																0.73
Buford	White.																																2.15
Cascade	San Juan																																
Cedaredge	Gunnison																																0.85
Chrome	San Juan																																1.10
Cochetopa	Gunnison																																0.15
Colbran	Grand.	.02																															2.41
Columbine	Yampa.																																2.26
Comanche Ranch	Gunnison																																2.45
Corona	Grand.	.48																															5.80
Craig	Yampa.																																0.91
Crawford (near)	Gunnison																																0.99
Created Butte	do.																																1.70
De Beque	Grand.																																0.78
Delta	Gunnison																																0.84
Dillon	Grand.																																1.51
Durango	San Juan																																1.58
Eureka	do.																																1.83
Fraser	Grand.																																1.97
Fruita	do.																																0.83
Glade Park	do.																																1.19
Gladstone	San Juan																																0.84
Glenwood Springs (near)	Grand.																																0.84
Grand Junction	do.	.01																															0.36
Grandlake	do.																																1.51
Grand Valley	do.																																1.11
Gunnison	Gunnison																																0.23
Hesperus	La Plata																																0.90
Horsefly	Gunnison																																3.97
Ironton	do.	.16																															2.08
Lodore	Yampa																																0.84
Lake City	Gunnison																																0.84
Ley	Yampa																																1.10
Mancos	San Juan																																1.78
Marble	Grand.																																2.97
Marshall Pass	Gunnison																																1.33
Meeker (near)	White.																																1.15
Montrose	Gunnison																																0.58
Nast	Grand.																																0.69
Pagoda	Yampa																																1.87
Pagosa Springs	San Juan																																0.75
Palisades	Grand.																																1.40
Paonia	Gunnison																																1.40
Pitkin	Gunnison																																0.91
Pyramid	Yampa																																1.40
Rangely	White.																																0.60
Redcliff	Grand.																																2.02
Rico	Dolores																																1.15
Rifle	Grand.	.01																															0.63
River Portal	Gunnison																																1.01
Sapinero (near)	do.																																2.12
Shoshone	Grand.																																1.93
Silverton (near)	San Juan																																1.90
Spruce Lodge	Grand.																																3.48
Steamboat Springs	Yampa																																0.02
Tecoma	San Juan					</td																											

TABLE 2.—*Daily precipitation for April, 1912.* District No. 9—Continued.

TABLE 2.—*Daily precipitation for April, 1912. District No. 9—Continued.*

Stations.	Watershed.	Day of month.																													Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
<i>Arizona—Contd.</i>																																	
Oracle.....	San Pedro.....																																0.08
Osborn.....	do.....																															0.87	
Paradise.....	Desert.....																															0.50	
Parker.....	Colorado.....																															0.52	
Payson.....	Verde.....																															0.56	
Phoenix.....	Salt.....																															0.46	
Phoenix (1).....	do.....																															1.97	
Phoenix (2).....	do.....																															0.69	
Pinal Ranch.....	Gila.....	.05																														2.26	
Pinto.....	Little Colorado.....	.07	.05																													0.14	
Prescott.....	Hassayampa.....																															0.32	
Quartzsite.....	Colorado.....	.02																														2.78	
Redrock.....	Santa Cruz.....	.08																														0.85	
Roosevelt.....	Salt.....	.65																														0.55	
Sacaton.....	Gila.....	.08																														0.55	
St. Johns.....	Little Colorado.....																															0.55	
St. Michaels.....	do.....																															0.55	
Salome.....	Colorado.....																															0.55	
San Carlos.....	Gila.....																															0.55	
San Simon.....	do.....																															0.55	
Seligman.....	Verde.....																															0.55	
Sentinel.....	Gila.....	.23																														0.93	
Silverbell.....	Santa Cruz.....																															0.60	
Snowflake.....	Little Colorado.....	.30																														1.25	
Springerville.....	do.....	T.																														0.41	
Supai.....	Colorado.....	.06																														0.87	
Tempe.....	Salt.....	.18																														0.66	
Thatcher.....	Gila.....																															0.13	
Tombstone.....	San Pedro.....	.09																														0.21	
Truxton.....	Colorado.....																															0.21	
Tuba.....	Little Colorado.....	.05																														0.86	
Tucson.....	Santa Cruz.....	.02	T.																													0.28	
Tucson (1).....	do.....																															0.24	
Tucson (2).....	do.....																															0.28	
Vail.....	do.....																															0.05	
Walnut Grove.....	Hassayampa.....																															1.70	
Wickenburg.....	do.....																															0.11	
Willcox.....	Desert.....																															1.90	
Williams.....	Colorado.....																															0.70	
Winslow.....	Little Colorado.....	.20																														0.10	
Yuma.....	Colorado.....																															0.06	
Yuma (1).....	do.....																															1.00	
<i>Nevada.</i>																																0.63	
Caliente.....	Colorado.....																															1.00	
Logan.....	do.....																															0.63	

* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

||| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures at selected stations for April, 1912. District No. 9, Colorado Valley.

Date.	Wyoming.				Colorado.								Utah.						New Mexico.									
	Daniel.		Green River.		Durango.		Grand Junction.		Gunnison.		Meeker.		Steamboat Springs.		Emery.		Fort Duchesne.		Hite.		Moab.		St. George.		Bloomfield.		Fort Bayard.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	42	12	61	6	53	21	56	32	47	28	44	7	51	14	53	24	67	33	63	32	68	31	58	29	56	24		
2....	45	10	59	19	58	23	64	32	50	15	55	22	47	11	52	15	64	24	69	37	66	33	73	31	63	20		
3....	43	3	63	8	61	27	69	38	48	12	60	25	51	13	49	20	66	26	73	39	73	33	77	38	74	29		
4....	45	15	60	25	57	32	67	45	55	18	60	30	57	22	55	17	65	36	74	45	71	45	78	45	67	35		
5....	41	12	49	27	56	36	59	44	56	13	52	30	49	27	60	18	62	36	69	45	68	42	73	48	66	38		
6....	40	13	54	19	60	35	62	34	50	23	50	23	44	24	58	20	60	21	72	45	68	33	76	38	65	36		
7....	43	8	67	15	59	29	66	36	57	20	61	23	53	10	67	23	74	40	74	31	82	36	65	36	52	33		
8....	49	15	68	19	52	29	67	34	55	15	64	24	50	12	60	29	70	49	72	45	78	54	66	30	51	31		
9....	47	14	66	20	61	27	70	35	.....	.....	63	22	52	15	57	30	71	27	76	44	76	43	70	31	62	33
10....	42	15	42	29	46	32	50	36	.....	.....	58	27	47	17	48	26	63	37	61	45	66	41	59	43	57	32
11....	47	16	58	18	54	31	62	40	.....	.....	59	26	53	18	42	21	58	29	63	47	65	45	52	47	64	33
12....	41	21	45	27	38	24	48	31	55	19	50	33	50	23	46	22	48	32	50	41	51	36	47	26	59	31		
13....	37	15	39	24	41	24	52	33	37	20	43	26	38	25	52	28	52	27	63	40	59	34	61	29	50	21		
14....	40	20	50	21	50	23	56	27	45	17	49	18	43	26	55	26	57	20	65	35	63	28	65	36	56	32		
15....	42	17	56	19	54	28	61	32	49	15	58	21	51	20	51	25	61	24	70	39	67	29	72	37	80	27		
16....	41	15	54	20	51	29	62	35	50	14	54	23	51	15	52	28	61	28	67	49	69	34	72	40	61	31		
17....	37	14	55	16	49	31	54	36	51	21	49	38	48	28	55	29	57	35	68	46	69	42	67	37	50	31		
18....	46	15	52	18	45	26	51	34	48	15	54	20	51	28	57	24	53	24	63	45	59	32	71	36	50	29		
19....	38	10	41	21	48	31	46	33	49	18	38	26	46	23	53	32	47	29	62	43	61	38	60	40	50	33		
20....	31	8	44	20	44	28	51	30	38	25	42	24	34	24	48	22	50	29	61	39	58	32	64	28	51	37		
21....	36	13	42	23	45	26	51	32	42	10	45	22	46	27	50	24	53	28	61	37	57	33	66	29	54	28		
22....	37	15	49	12	56	22	58	31	47	20	47	25	43	16	58	21	55	26	69	36	65	29	69	32	62	21		
23....	45	15	58	20	61	27	62	31	54	22	53	23	52	27	63	30	60	21	72	39	67	26	78	32	64	23		
24....	41	17	62	28	67	32	73	40	60	24	63	25	53	29	67	32	67	28	79	43	76	34	80	38	77	27		
25....	40	18	50	26	54	34	59	42	51	30	50	32	56	27	54	23	59	30	65	48	67	43	62	39	76	37		
Mns..	42.0	14.2	54.5*	20.8	54.1	28.8	60.3	35.9	51.3d	19.2d	53.8	26.4	49.8	20.9	54.6	23.5	60.1	28.6	67.9	42.4	66.9	37.0	69.5	38.5	61.2	30.6		

Date.	Arizona.												Nevada.															
	Bisbee.		Flagstaff.		Fort Apache.		Grand Canyon.		Parker.		Phoenix.		Prescott.		St. Michaels.		Tucson.		Yuma.		Logan.							
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.				
1....	54	29	48	20	65	23	53	26	82	38	69	38	52	22	49	28	63	35	79	43	74	35	84	47	78	38		
2....	64	35	55	22	65	32	56	28	86	55	79	45	54	31	60	22	79	39	84	47	78	42	86	52	76	45		
3....	66	44	57	22	68	30	55	28	88	55	83	60	67	36	59	26	78	49	84	56	79	46	87	52	78	48		
4....	66	50	56	30	64	35	49	30	88	56	82	57	61	38	62	37	81	60	80	52	78	51	87	55	78	51		
5....	61	46	49	30	62	33	52	32	80	56	71	51	62	38	67	34	72	44	71	51	75	51	82	47	76	51		
6....	57	37	55	29	62	32	54	34	85	53	71	49	63	29	58	31	61	40	80	46	79	44	87	52	78	45		
7....	59	37	55	26	62	33	56	35	89	62	78	50	64	31	61	23	73	42	86	49	84	55	81	52	78	45		
8....	61	31	53	28	68	36	55	38	85	61	78	52	63	35	58	29	77	47	86	56	81	52	82	51	78	48		
9....	67	40	54	28	62	30	49	36	82	52	75	52	47	31	59	28	79	49	87	67	86	56	81	52	78	48		
10....	62	40	42	27	35	30	48	34	78	50	70	50	46	30	59	30	72	46	74	51	84	64	82	51	78	42		
11....	60	40	39	28	50	30	40	30	69	45	68	46	46	30	56	35	66	41	69	46	81	61	86	57	77	45		
12....	50	33	29	20	55	28	33	26	73	45	44	38	25	49	19	50	37	66	41	60	37	83	60	86	59	77	45	
13....	52	28	36	20	52	26	34	20	80	50	64	41	44	22	49	23	70	43	73	39	66	33	70	39	86	59	77	45
14....	62	32	45	13	56	35	38	23	83	50	70	44	54	21	54	26	68	34	78	47	69	42	87	55	77	45		
15....	58	41	47	23	61	28	39	28	82	50	76	52	54	21	51	23	68	45	83	50	74	41	87	55	77	45		
16....	59	38	49	26	62	30	35	34	85	55	77	53	57	30	49	30	70	44	83	47	76	49	87	55	77	45		
17....	64	40	48	29	60	34	55	32	85	60	79	55	58	36	50	32	75	46	84	52	76	45	87	55	77	45		
18....	64	40	52	23	61	23	60	35	85	59	79	52	59	32	52	38	76	45	86	55								